

Phacelia parishii A. Gray**PARISH PHACELIA**

FAMILY: *Hydrophyllaceae*, the waterleaf family.

STATUS: **Heritage Program SENSITIVE LIST, ranks: G2G3 S2S3**

USFWS/ESA: species of concern. **STATE OF NEVADA:** none. **BLM:** Special Status Species in Nevada.

USFS: none. **NNNPS:** watch list.

POPULATION CENSUS (NEVADA): 16 occurrences mapped; total estimated individuals 37,000,000+, total estimated area 1860+ ha (4596+ ac). **TREND:** DECLINING.

IMPACTS AND MAJOR THREATS (NEVADA): No summary available (see references).

INVENTORY EFFORT (NEVADA): Surveys in Nevada are largely complete. Most recent entered survey 1998, average year of last survey 1989. **Years since last entered survey** (percent of mapped records at various survey ages): **0-5 yrs:** 5.9%; **6-10 yrs:** 88.2%; **51+ yrs or unknown:** 5.9%.

LAND MANAGEMENT (NEVADA) in decreasing predominance: U. S. Bureau of Land Management, private lands, U. S. Fish and Wildlife Service, U. S. Department of Defense, Nevada state lands.

RANGE: Clark, Lincoln, Nye, and White Pine counties, Nevada; also in AZ and CA. Maximum Nevada **range dimension** **378.7 km (235.3 mi)** excluding most disjunct record.

ELEVATIONS RECORDED (NEVADA): 2190-5922 feet (668-1805 meters).

HABITAT (NEVADA): Moist to superficially dry, open, flat to hummocky, mostly barren, often salt-crusts silty-clay soils on valley bottom flats, lake deposits, and playa edges, often near seepage areas, sometimes on gypsum deposits, surrounded by saltbush scrub vegetation but with few immediate associates such as *Atriplex confertifolia*, *A. canescens*, *A. argentea*, *Poa secunda*, *Monolepis nuttalliana*, *Phacelia fremontii*, *Lepidium flavum*, *Sarcobatus vermiculatus*, etc. Aquatic or wetland-dependent in Nevada.

PHENOLOGY: flowering late-spring. Range of most frequent **survey months:** April-August.

LIFE-FORM AND HABIT: small annual.

DESCRIPTION: not available (see references).

PHOTOGRAPHS: Blomquist et al. (1995), Knight and Smith (1996), Knight et al. (1997), Smith (1997); Nevada Natural Heritage Program files.

ILLUSTRATIONS: Cronquist et al. (1984).

OTHER GENERAL REFERENCES (listed separately): Beatley (1976), Cochrane (1979), Hickman (1993), Niles et al. (1998).

SPECIFIC REFERENCES:

Harrison, B. F. 1980. Botanical survey of threatened and endangered plants Schell Resource Area. Ely, Nevada: Bureau of Land Management.

Howell, J. T. 1943. Studies in *Phacelia* - A revision of species related to *P. pulchella* and *P. rotundifolia*. American Midland Naturalist 29: 1-26.

Smith, F. 1997. Current knowledge and conservation status of *Phacelia parishii* A. Gray (Hydrophyllaceae) in Nevada, September 1996 (second draft 1/17/97). Carson City: Nevada Natural Heritage Program, DRAFT status report prepared for the U. S. Fish and Wildlife Service, Reno.
